

NBC - BUCKLIN POINT WWTF

Originally known as the Blackstone Valley District Commission treatment facility, the Bucklin Point treatment plant, now run by the Narragansett Bay Commission, began operation as a primary treatment facility in 1954. 1972 saw an upgrade to secondary treatment, with subsequent upgrades in 1985, 1989 and 1993. Run by 65 operators and mechanics, Bucklin Point is the second largest in the state. The facility, located in East Providence, serves much of Rhode Island's northeastern metropolitan area. Engineers at the facility recently completed designs for a comprehensive upgrade that will include a new wet-weather treatment facility, ultraviolet disinfection and reduction of total nitrogen. In 1999 the Narragansett Bay Commission awarded a 13-year contract to Professional Services Group/US Filter to operate and maintain the plant. Bucklin Point discharges into the Seekonk River.



Superintendent:
Address:

John Oatley
NBC-Bucklin Point WWTF
235 Promenade St.
Providence, RI 02908
434-6350 / 222-2220
438-5229
john_oatley@usfilter.com

Telephone #:
Fax #:
E-mail:



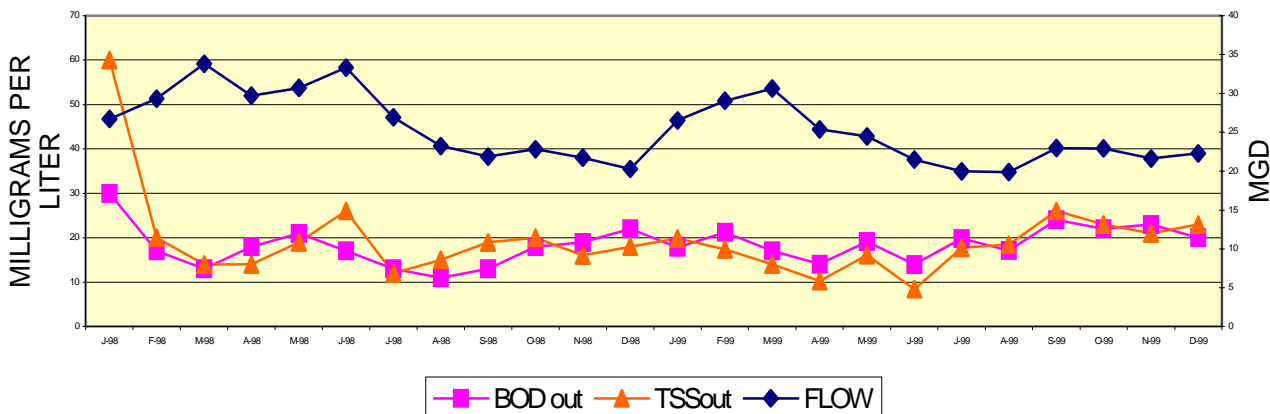
Overall Treatment: Good

Having six monthly violations for flow in 1998 (January through April and June and July), no monthly violations for BOD, or fecal coliform and one monthly violation for TSS in January 1998, Bucklin Point received a rating of Good.

CURRENT AND FUTURE CONCERNS

NBC-Bucklin Point's permit expired December 31, 1995 and will be reissued upon completion of a study underway of the Providence River. The new permit will most likely include limits for ammonia and total nitrogen. The facility achieved compliance with the final limits for Total Residual Chlorine for dry and wet weather flows on January 1, 2000. The Compliance Order for Bucklin Point (RIO-052) regarding Combined Sewer Overflows (CSO) was modified on February 15, 1999 to include schedules for design and construction of the CSO abatement plan, identified in the April 17, 1998 Concept Design Report Amendment (which was approved by RI DEM in July, 1999).

NBC—BUCKLIN POINT EFFLUENT DATA - 1998/1999



BEGAN OPERATION 1954

ANNUAL SURVEY

| PARAMETER | 1996 | 1997 | 1998 | 1999 | PERMIT LIMIT | VIOLATIONS 1998/1999 |
|----------------------------|---------|---------|---------|---------|-----------------|-------------------------|
| FLOW (MGD) | 24.6 | 23.2 | 26.7 | 23.9 | 31 | 6/0 |
| BOD INFLUENT (MG/L) | 224.9 | 213.8 | 200.4 | 261.4 | | |
| BOD EFFLUENT (MG/L) | 9.8 | 7.6 | 17.7 | 19.1 | 30 | 0/0 |
| BOD INFLUENT (LBS./DAY) | 45331.1 | 40544.8 | 43479.0 | 51238.7 | | |
| BOD EFFLUENT (LBS./DAY) | 2016.0 | 1475.9 | 3921.6 | 3800.2 | | |
| BOD % REMOVAL | 95.5 | 96.3 | 91.0 | 92.6 | | |
| TSS INFLUENT (MG/L) | 180.2 | 179.3 | 148.6 | 184.3 | | |
| TSS EFFLUENT (MG/L) | 15.5 | 16.2 | 21.1 | 17.9 | 30 | 1/0 |
| TSS INFLUENT (LBS./DAY) | 36200.5 | 34376.9 | 32305.1 | 36344.3 | | |
| TSS EFFLUENT (LBS./DAY) | 3225.9 | 3095.8 | 4713.1 | 3546.1 | | |
| TSS % REMOVAL | 90.9 | 90.2 | 85.4 | 90.2 | | |
| FECAL COLIFORM (MPN/100ML) | 31.3 | 13.5 | 42.0 | 24.9 | 200.0 | 0/0 |
| CHLORINE RESIDUAL (MG/L) | | | 1.7 | 1.6 | 2.0* | 2/1 |

*Daily Maximum Limit

Operations & Maintenance

Operations & Maintenance at this facility have been contracted out to Professional Services Group. Work on the plant's dechlorination building and adjoining landfill closure has been completed. Four new automatic wastewater samplers were purchased as replacements for older units. As a means to improve quality control in light of stricter metals limits the facility has instituted a standardized "clean sampling" technique.

1998 O&M Rating: 10 out of 10

1999 O&M Rating: 10 out of 10

1998 Laboratory Rating: 5 out of 5

1999 Laboratory Rating: 5 out of 5

Overall O&M Rating: Excellent

1998 SLUDGE DISPOSAL METHOD

Incineration (NETCO)

SLUDGE PRODUCED

3411 DRY TONS

1999 SLUDGE DISPOSAL METHOD

Incineration (NETCO)

SLUDGE PRODUCED

4011 DRY TONS

Sludge generated by the facility is transported in liquid form to the NETCO-operated incinerator in Woonsocket for disposal.

NBC - BUCKLIN POINT 1986 -1999 DATA

